## IM - B Relay (Continued)

| | |
|---|---|
| dielectric version | |
| Initial dielectric strength | |
| between open contacts | 2500Vrms |
| between contact and coil | 3500Vrms |
| Initial surge withstand voltage | |
| between open contacts | 3500V |
| between contact and coil | 4900V |
| Initial insulation resistance | |
| between insulated elements | $>10^9\Omega$ |
| Capacitance | |
| between open contacts | max. 1pF |
| between contact and coil | max. 2pF |
| between adjacent contacts | max. 2pF |

*this relay contains SF6 (Sulfur hexafluoride, CAS number: 2551-62-4) for dielectric strength enhancement, SF6 is hermetically sealed in relay without leaks to air during normal application as recommended per the applicable product specification. It is clarified that the usage of SF6 in mini signal relay is not prohibited by related regulations. Please contact TE local sales or field engineer for further information and detailed material declaration.

### RF Data

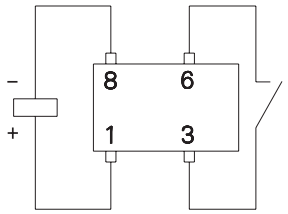
| | |
|---|---|
| Isolation at 100MHz/900MHz | 37.0dB/18.8dB |
| Insertion loss at 100MHz/900MHz | 0.03dB/0.33dB |
| Voltage standing wave ratio (VSWR) | |
| at 100MHz/900MHz | 1.06/1.49 |

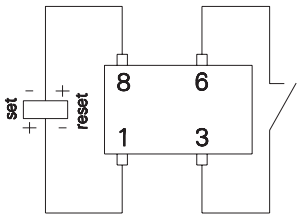
### Other Data

| | |
|---|---|
| Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customersupport/rohssupportcenter | |
| Ambient temperature | -40°C to +85°C |
| Thermal resistance | < 150K/W |
| Category of environmental protection | |
| IEC 61810 | RT V - hermetically sealed |
| Degree of protection | |
| IEC 60529 | IP 67, immersion cleanable |
| Vibration resistance (functional) | 20g, 10 to 500Hz |
| Shock resistance (functional), half sinus 11ms | 50g |
| Shock resistance (destructive), half sinus 0.5ms | 500g |
| Weight | max. 0.75g |
| Resistance to soldering heat THT | |
| IEC 60068-2-20 | 265°C/10s |
| Resistance to soldering heat SMT | |
| IEC 60068-2-58 | 265°C/10s |
| Moisture sensitive level, JEDEC J-Std-020D | MSL3 |
| Ultrasonic cleaning | not recommended |
| Packaging/unit | |
| THT version | tube/50pcs., box/1000 pcs. |
| SMT version | reel/1000 pcs., box/1000 or 5000 pcs. |

**Terminal assignment**
TOP view on relay

IM-B, 1 form A (NO)

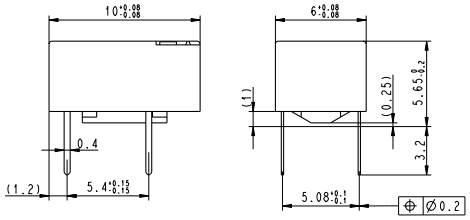


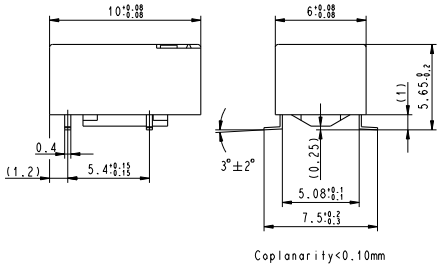

Contacts are shown in reset condition. Contact position might change during transportation and must be reset before use.

**Dimensions**

**THT version** Standard version

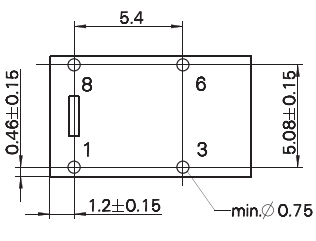



**SMT version** Gull wings

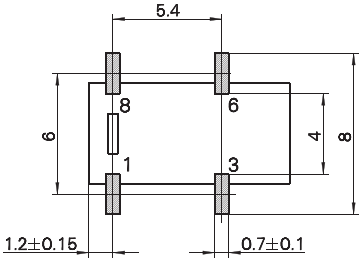



**PCB layout**
TOP view on component side of PCB

THT mounting holes



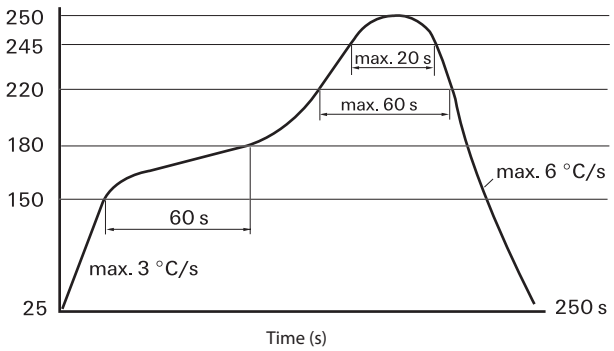

SMT - solder pads



## IM - B Relay (Continued)

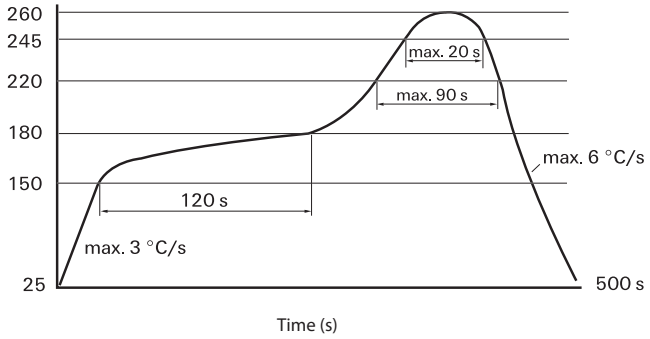
**Processing** Recommended soldering conditions

Soldering conditions according IEC 60058-2-58 and IPC/JEDEC J-STD-020D

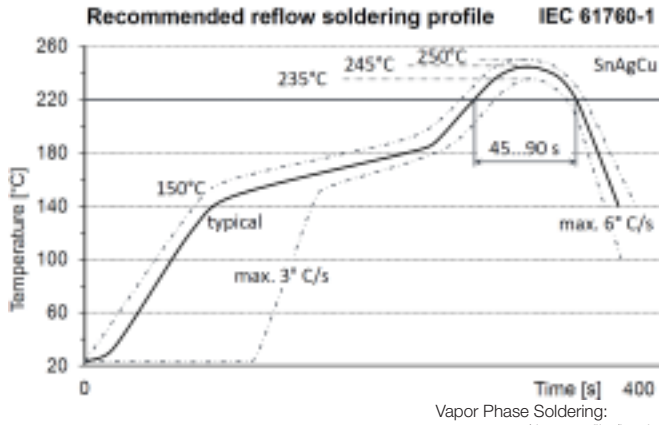



Infrared Soldering: temperature/ time profile (lead and housing peak temperature)

Resistance to soldering heat - Reflow profile



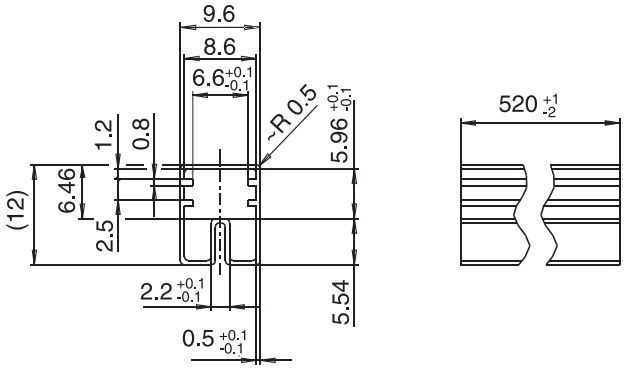

Recommended reflow soldering profile



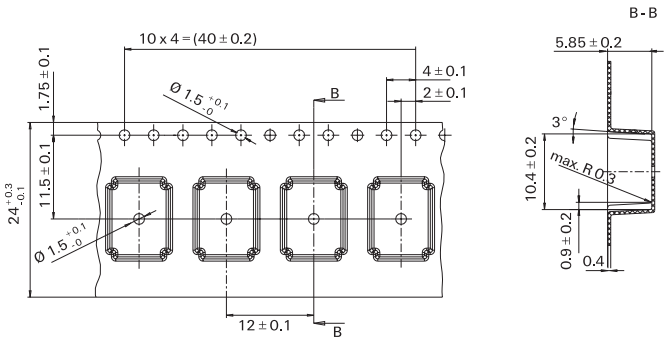

Vapor Phase Soldering: temperature/time profile (lead and housing peak temperature)

**Packing**

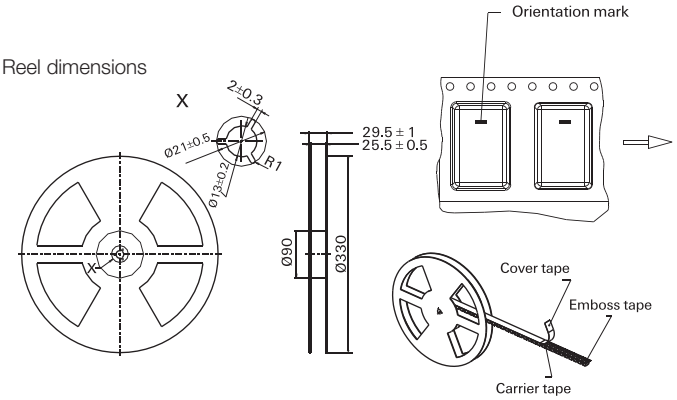
Tube for THT version
50 relays per tube, 1000 relays per box




Tape and reel for SMT version
1000 relays per reel, 1000 or 5000 relays per box




Reel dimensions



## IM - B Relay (Continued)

**Product code structure** — Typical product code: **IM B 03 G R**

**Type**
**IM** Signal Relays IM Series IMA/IMB

**Contact arrangement**
**B** 1 form A, 1 NO

**Coil**
Coil code: please refer to coil versions table

**Performance type**
**Blank** Standard version
**C** High Dielectric Version

**Terminals**
**T** THT - standard
**G** SMT-gull wing

**Packing**
**S** Tube
**R** Reel

| Product code | Arrangement | Perf. type | Coil | Coil type | Terminals | Part number |
|---|---|---|---|---|---|---|
| IMB01CGR | 1 form A, | High dielectric | 3VDC | Monostable | SMT gull wing | 1462041-1 |
| IMB01CTS | 1 NO | | | | THT standard | 1462041-4 |
| IMB02CGR | contact | | 4.5VDC | | SMT gull wing | 1462041-2 |
| IMB02CTS | | | | | THT standard | 1462041-5 |
| IMB03CGR | | | 5VDC | | SMT gull wing | 1462041-7 |
| IMB03CTS | | | | | THT standard | 1462041-8 |
| IMB04CGR | | | 6VDC | | SMT gull wing | 1462041-9 |
| IMB06CGR | | | 12VDC | | | 1462041-3 |
| IMB06CTS | | | | | THT standard | 1462041-6 |
| IMB07CGR | | | 24VDC | | SMT gull wing | 1-1462041-3 |
| IMB07CTS | | | | | THT standard | 1-1462041-4 |
| IMB42CGR | | | 4.5VDC | Bistable | SMT gull wing | 1-1462041-6 |
| IMB42CTS | | | | | THT standard | 1-1462041-5 |